



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

**6-2s-36w Rawlins KS**

1515 Wynkoop STE 700  
Denver, CO 80202

**Krueger Trust #1-6**

Job Ticket: 6005i8

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.08.20 @ 09:05:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:41:00

Time Test Ended: 18:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 4122.00 ft (KB) To 4192.00 ft (KB) (TVD)**

Reference Elevations: 3321.00 ft (KB)

Total Depth: 4192.00 ft (KB) (TVD)

3316.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 358.02 psig @ 4123.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.20

End Date:

2014.08.20

Last Calib.:

2014.08.20

Start Time: 09:05:05

End Time:

18:21:15

Time On Btm:

2014.08.20 @ 11:40:30

Time Off Btm:

2014.08.20 @ 15:41:00

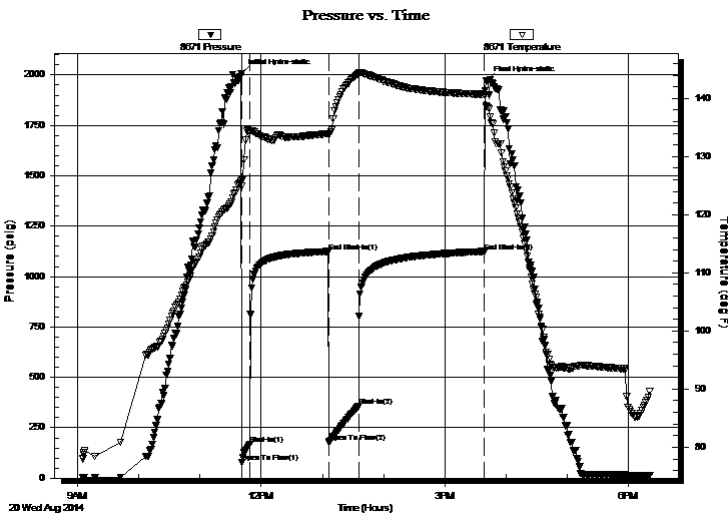
TEST COMMENT: 10 - IF: 3" Blow at open, built to BOB (11") at 7 min.

75 - IS: No blow back

30 - FF: Blow built to BOB at 7 3/4 min.

120 - FS: Weak surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.48	125.84	Initial Hydro-static
1	76.92	126.05	Open To Flow (1)
9	167.58	134.15	Shut-In(1)
86	1124.70	133.92	End Shut-In(1)
86	179.24	133.70	Open To Flow (2)
115	358.02	144.21	Shut-In(2)
239	1125.03	140.68	End Shut-In(2)
241	1969.79	138.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	MCW w/oil spots 91%w , 8%m, 1%o	1.81
435.00	SOC/WM 54%m, 40%w , 3%o, 3%g	6.10
5.00	OWM 37%m, 35%w , 28%o	0.07

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



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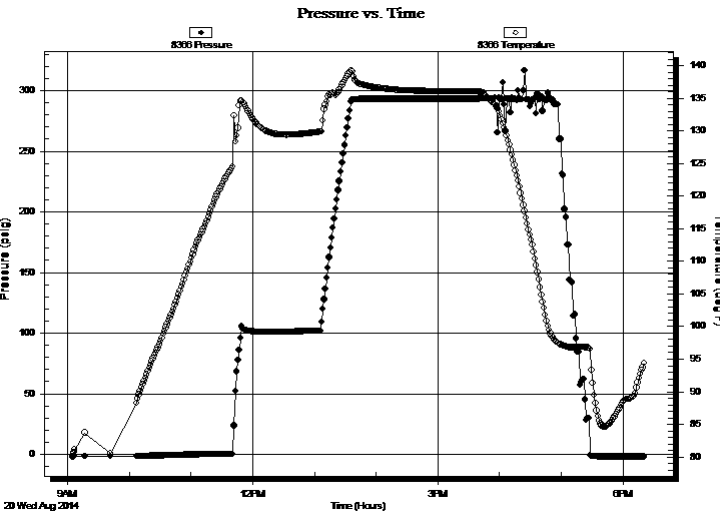
## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:41:00  
 Time Test Ended: 18:21:15  
 Interval: **4122.00 ft (KB) To 4192.00 ft (KB) (TVD)**  
 Total Depth: 4192.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 3321.00 ft (KB)  
 3316.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8366 Fluid

Press@RunDepth: psig @ 4033.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.20 End Date: 2014.08.20 Last Calib.: 2014.08.20  
 Start Time: 09:05:05 End Time: 18:20:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 10 - IF: 3" Blow at open, built to BOB (11") at 7 min.  
 75 - ISl: No blow back  
 30 - FF: Blow built to BOB at 7 3/4 min.  
 120 - FSl: Weak surface blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	MCW w/oil spots 91%w , 8%m, 1%o	1.81
435.00	SOC/WM 54%m, 40%w , 3%o, 3%g	6.10
5.00	OWM 37%m, 35%w , 28%o	0.07

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests



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**FLUID SUMMARY**

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Job Ticket: 6005i8

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.08.20 @ 09:05:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	MCW w/oil spots 91%w , 8%m, 1%o	1.812
435.00	SOC/WM 54%m, 40%w , 3%o, 3%g	6.102
5.00	OWM 37%m, 35%w , 28%o	0.070

Total Length: 690.00 ft      Total Volume: 7.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .138 ohms @ 90.8 deg F Chlorides = 42,000 ppm

Sampler = 155 psi 2500 mL 95%w , 4%m, 1%o

Serial #: 8671

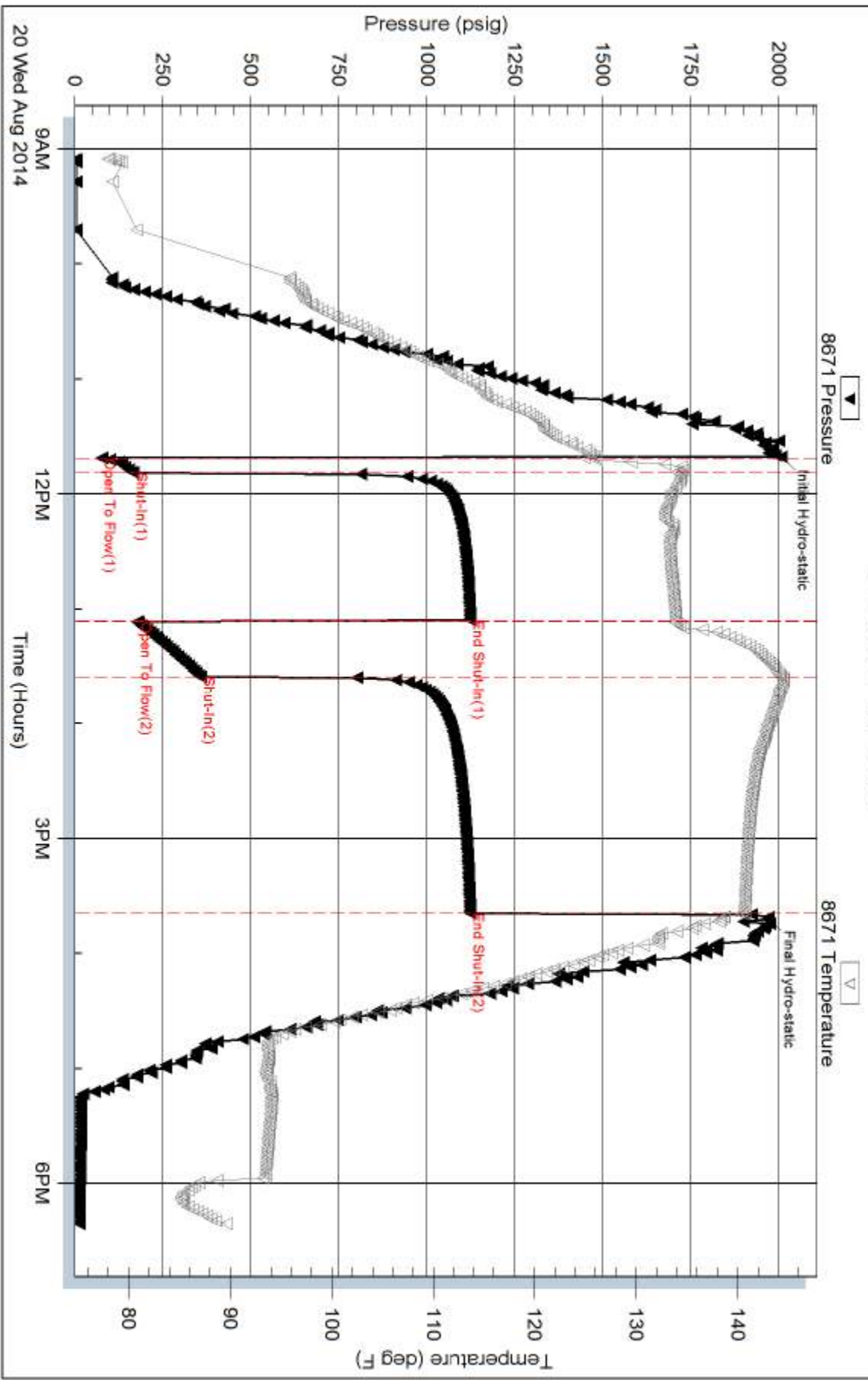
Inside

Samuel Gary Jr & Associates, Inc.

Krueger Trust #1-6

DST Test Number: 2

### Pressure vs. Time



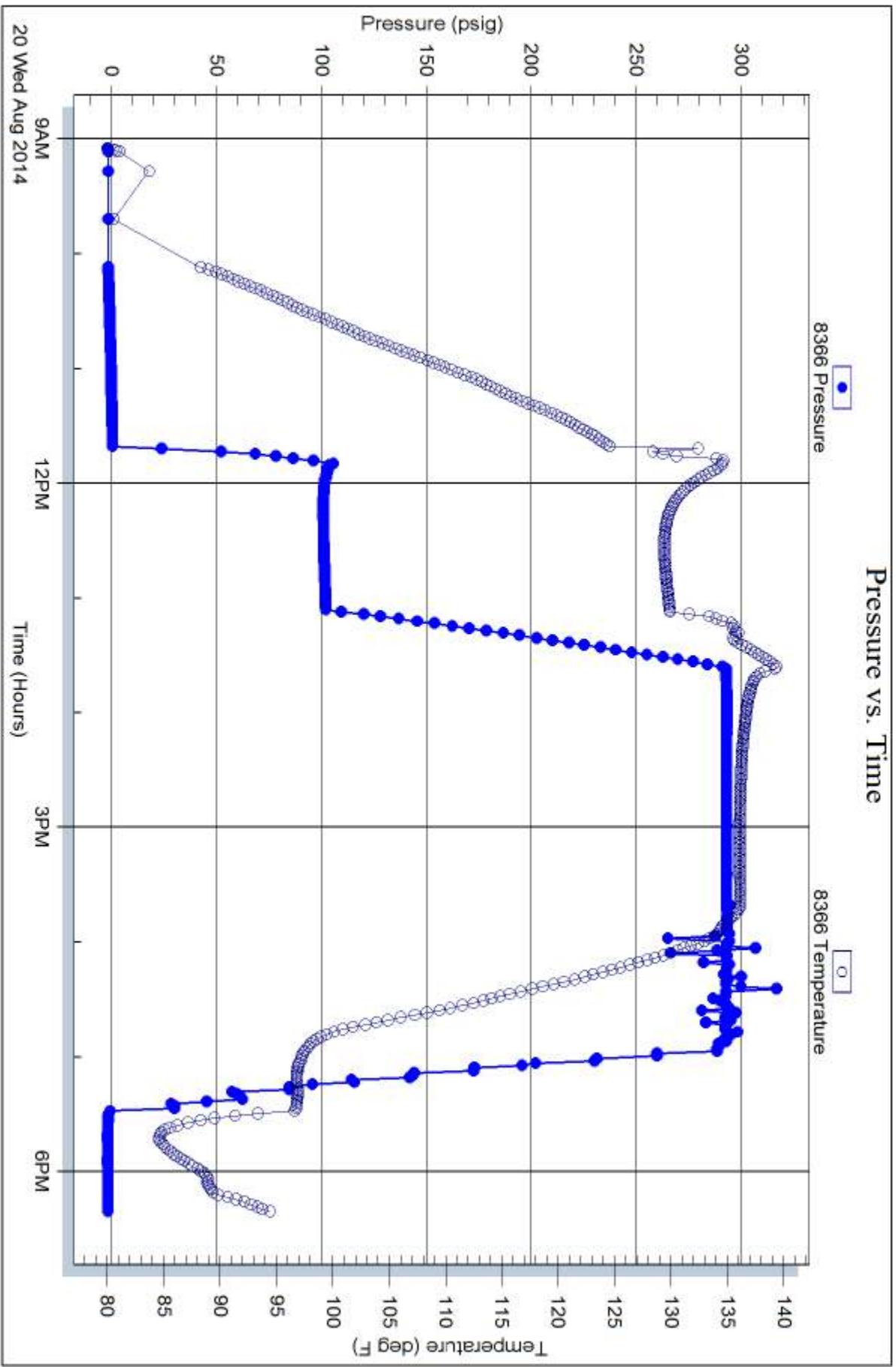
Serial #: 8366

Fluid

Samuel Gary Jr & Associates, Inc.

Krueger Trust #1-6

DST Test Number: 2



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Ref. No: 600518

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